

Message

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**From:** Jackson, Ryan [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=38BC8E18791A47D88A279DB2FEC8BD60-JACKSON, RY]  
**Sent:** 8/24/2018 7:45:37 PM  
**To:** Block, Molly [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=60d0c681a16441a0b4fa16aa2dd4b9c5-Block, Moll]  
**CC:** Konkus, John [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=555471b2baa6419e8e141696f4577062-Konkus, Joh]; Beck, Nancy [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=168ecb5184ac44de95a913297f353745-Beck, Nancy]; Grantham, Nancy [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=12a3c2ed7158417fb0bb1b1b72a8cfb0-Grantham, Nancy]; Baptist, Erik [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=10fc1b085ee14c6cb61db378356a1eb9-Baptist, Er]; Bertrand, Charlotte [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=f044d768e05842e1b75321ff6010e1b8-Bertrand, Charlotte]  
**Subject:** Re: Pesticide Studies Won E.P.A.'s Trust, Until Trump's Team Scorned 'Secret Science' - The New York Times

Deliberative Process / Ex. 5

Ryan Jackson  
Chief of Staff  
U.S. EPA

Personal Email / Ex. 6

On Aug 24, 2018, at 2:59 PM, Block, Molly <[block.molly@epa.gov](mailto:block.molly@epa.gov)> wrote:

# Deliberative Process / Ex. 5

**From:** Jackson, Ryan  
**Sent:** Friday, August 24, 2018 2:47 PM  
**To:** Konkus, John <[konkus.john@epa.gov](mailto:konkus.john@epa.gov)>  
**Cc:** Beck, Nancy <[Beck.Nancy@epa.gov](mailto:Beck.Nancy@epa.gov)>; Block, Molly <[block.molly@epa.gov](mailto:block.molly@epa.gov)>; Grantham, Nancy <[Grantham.Nancy@epa.gov](mailto:Grantham.Nancy@epa.gov)>; Baptist, Erik <[Baptist.Erik@epa.gov](mailto:Baptist.Erik@epa.gov)>; Bertrand, Charlotte <[Bertrand.Charlotte@epa.gov](mailto:Bertrand.Charlotte@epa.gov)>

**Subject:** Re: Pesticide Studies Won E.P.A.'s Trust, Until Trump's Team Scorned 'Secret Science' - The New York Times

# Deliberative Process / Ex. 5

Ryan Jackson  
Chief of Staff  
U.S. EPA

Personal Email / Ex. 6

On Aug 24, 2018, at 2:43 PM, Konkus, John <[konkus.john@epa.gov](mailto:konkus.john@epa.gov)> wrote:

## Deliberative Process / Ex. 5

Sent from my iPhone

On Aug 24, 2018, at 2:41 PM, Jackson, Ryan <[jackson.ryan@epa.gov](mailto:jackson.ryan@epa.gov)> wrote:

## Deliberative Process / Ex. 5

Ryan Jackson  
Chief of Staff  
U.S. EPA

Personal Matters / Ex. 6

On Aug 24, 2018, at 2:38 PM, Beck, Nancy <[Beck.Nancy@epa.gov](mailto:Beck.Nancy@epa.gov)> wrote:

## Deliberative Process / Ex. 5

## Deliberative Process / Ex. 5

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Nancy B. Beck, Ph.D., DABT  
Deputy Assistant Administrator, OCSPP  
P: 202-564-1273

Personal Email / Ex. 6

[beck.nancy@epa.gov](mailto:beck.nancy@epa.gov)

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**From:** Jackson, Ryan  
**Sent:** Friday, August 24, 2018 2:22 PM  
**To:** Block, Molly <[block.molly@epa.gov](mailto:block.molly@epa.gov)>  
**Cc:** Grantham, Nancy <[Grantham.Nancy@epa.gov](mailto:Grantham.Nancy@epa.gov)>; Konkus, John <[konkus.john@epa.gov](mailto:konkus.john@epa.gov)>; Beck, Nancy <[Beck.Nancy@epa.gov](mailto:Beck.Nancy@epa.gov)>; Baptist, Erik <[Baptist.Erik@epa.gov](mailto:Baptist.Erik@epa.gov)>; Bertrand, Charlotte <[Bertrand.Charlotte@epa.gov](mailto:Bertrand.Charlotte@epa.gov)>  
**Subject:** Re: Pesticide Studies Won E.P.A.'s Trust, Until Trump's Team Scorned 'Secret Science' - The New York Times

## Deliberative Process / Ex. 5

Ryan Jackson  
Chief of Staff  
U.S. EPA

Deliberative Process / Ex. 5

On Aug 24, 2018, at 2:15 PM, Block, Molly  
<[block.molly@epa.gov](mailto:block.molly@epa.gov)> wrote:

## Deliberative Process / Ex. 5

**From:** Jackson, Ryan  
**Sent:** Friday, August 24, 2018 2:14 PM  
**To:** Block, Molly  
<[block.molly@epa.gov](mailto:block.molly@epa.gov)>  
**Cc:** Grantham, Nancy  
<[Grantham.Nancy@epa.gov](mailto:Grantham.Nancy@epa.gov)>; Konkus,  
John <[konkus.john@epa.gov](mailto:konkus.john@epa.gov)>; Beck,  
Nancy <[Beck.Nancy@epa.gov](mailto:Beck.Nancy@epa.gov)>; Baptist,  
Erik <[Baptist.Erik@epa.gov](mailto:Baptist.Erik@epa.gov)>; Bertrand,  
Charlotte  
<[Bertrand.Charlotte@epa.gov](mailto:Bertrand.Charlotte@epa.gov)>  
**Subject:** Re: Pesticide Studies Won  
E.P.A.'s Trust, Until Trump's Team  
Scorned 'Secret Science' - The New York  
Times

## Deliberative Process / Ex. 5

## Deliberative Process / Ex. 5

Ryan Jackson  
Chief of Staff  
U.S. EPA

Personal Matters / Ex. 6

On Aug 24, 2018, at 1:36 PM, Block,  
Molly <[block.molly@epa.gov](mailto:block.molly@epa.gov)> wrote:

Ryan –

Deliberative Process / Ex. 5

Molly

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**From:** Grantham, Nancy  
**Sent:** Friday, August 24,  
2018 1:33 PM  
**To:** Jackson, Ryan

<jackson.ryan@epa.gov  
>; Konkus, John  
<konkus.john@epa.gov  
>

**Cc:** Block, Molly  
<block.molly@epa.gov>

**Subject:** RE: Pesticide  
Studies Won E.P.A.'s  
Trust, Until Trump's  
Team Scorned 'Secret  
Science' - The New York  
Times

Looping molly who has  
the info on this – we  
did put folks on the  
phone with eric lipton

**Nancy Grantham  
Office of Public  
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202-564-6879  
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7056 (mobile)**

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**From:** Jackson, Ryan  
**Sent:** Friday, August 24,  
2018 12:53 PM  
**To:** Konkus, John  
<konkus.john@epa.gov  
>; Grantham, Nancy  
<Grantham.Nancy@epa  
.gov>

**Subject:** Pesticide  
Studies Won E.P.A.'s  
Trust, Until Trump's  
Team Scorned 'Secret  
Science' - The New York  
Times

Deliberative Process / Ex. 5

[https://www.nytimes.c  
om/2018/08/24/busine  
ss/epa-pesticides-](https://www.nytimes.com/2018/08/24/business/epa-pesticides-)

[studies-epidemiology.html?action=click&module=Top%20Stories&pgtype=Homepage](#)

# **Pesticide Studies Won E.P.A.'s Trust, Until Trump's Team Scorned 'Secret Science'**

Backed by agrochemical companies, the current administration and Congress are moving to curb the role of human health studies in regulation.

Aug. 24, 2018



A strawberry field  
in California's  
Salinas Valley,  
where a yearslong  
study, funded in part  
by the  
Environmental  
Protection Agency,  
has linked pesticides  
to ailments in  
children of farm  
workers. Carlos  
Chavarría for The  
New York Times

SALINAS, Calif. —  
José Camacho once  
worked the fields  
here in the Salinas  
Valley, known as  
“the Salad Bowl of  
the World” for its  
abundance of lettuce



and vegetables. His wife still does.

But back in 2000, Mr. Camacho, who is 63, got an unusual phone call. He was asked if he wanted to work for a new project studying the effects of pesticides on the children of farm workers.

“This seemed really crazy,” he recalled saying at the time, since he barely spoke English. “A research study?”

The project, run by scientists from the University of California, Berkeley, and funded in part by the Environmental Protection Agency, is still going all these years later.

Known as Chamacos, Spanish for “children,” it has linked pesticides sprayed on fruit and vegetable crops with respiratory complications, developmental

disorders and lower  
IQs among  
children of farm  
workers. State and  
federal regulators  
have cited its  
findings to help  
justify proposed  
restrictions on  
everything from  
insecticides to  
flame-retardant  
chemicals.

But the Trump  
administration  
wants to restrict  
how human studies  
like Chamacos are  
used in rule-making.  
A government  
proposal this year,  
called Strengthening  
Transparency in  
Regulatory Science,  
could stop them  
from being used to  
justify regulating  
pesticides, lead and  
pollutants like soot,  
and undermine  
foundational  
research behind  
national air-quality  
rules. The E.P.A.,  
which has funded  
these kinds of  
studies, is now  
labeling many of

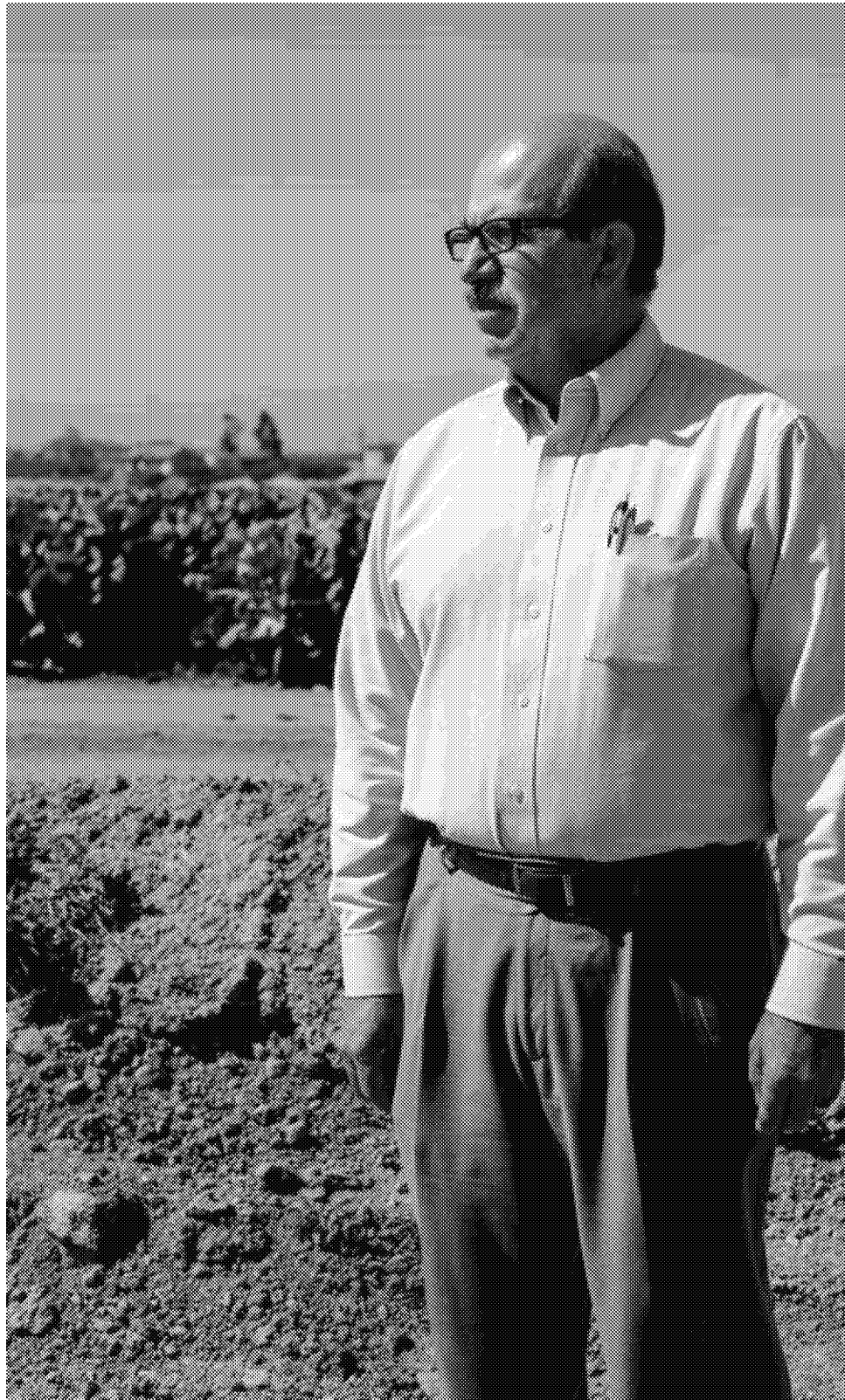
them “secret science.”

Studying disease trends in specific groups of people — a branch of medicine known as epidemiology — started to gain currency at the E.P.A. in recent years. These studies can be difficult because they require adjusting for all the various substances people are exposed to beyond pesticides. But researchers had amassed years of data from a wave of compelling chemical studies begun in the 1990s, giving regulators a new body of research to incorporate into their decision-making.

Under the Obama administration, the E.P.A., which had long favored tests on rats and other laboratory animals in its pesticide

regulation, began considering epidemiological studies more seriously. The agency leaned on this type of research in proposing to ban an insecticide called chlorpyrifos in late 2016, and has been repeatedly prodded to take action on the chemical by federal courts.

But weeks after Donald J. Trump was elected president, CropLife America, the main agrochemical trade group, petitioned the E.P.A. to “halt regulatory decisions that are highly influenced and/or determined by the results of epidemiological studies” unless universities were forced to share more of their data.



José Camacho was asked in 2000 to participate in the study, which tracks families as they go about their normal

lives. Such research was embraced by the E.P.A. during the Obama administration. Carlos Chavarria for The New York Times

Industry leaders aggressively challenged such studies in high-level meetings and emails with E.P.A. leaders, according to thousands of pages of documents obtained through Freedom of Information Act requests. One trade group invited a top E.P.A. official to meet with its Washington lobbyist last year, complaining that “carefully controlled” animal studies were giving way to “conclusions reflected in epidemiological papers.”

Gary W. Van Sickle, executive director of the California Specialty Crops Council,

wrote to the agency  
last September that  
“there have been  
serious flaws with  
E.P.A.’s conclusion  
to use these data.”

The council,  
representing  
growers of crops as  
diverse as carrots,  
garlic, pears and  
peppers, cited  
“inappropriate use  
of the  
epidemiology.”

The E.P.A., whose  
new leadership is  
seeded with industry  
veterans, has  
responded. In a mid-  
July assessment of  
atrazine, a widely  
used weed killer  
long banned in  
Europe, the agency  
reviewed and  
dismissed 12 recent  
epidemiological  
studies linking the  
herbicide to such  
ailments as  
childhood leukemia  
and Parkinson’s  
disease. It echoed  
the conclusions of  
research funded by  
Syngenta, atrazine’s  
manufacturer,

finding the chemical  
unlikely to cause  
cancer.

Before scandals  
forced Scott Pruitt  
out last month as  
head of the E.P.A.,  
he proposed the  
transparency  
regulation. It would  
ban many  
epidemiological  
studies, and other  
outside research,  
unless more data  
behind the studies  
was made public. In  
doing so, he revived  
a strategy advanced  
for years by  
congressional  
Republicans and  
corporate interests  
like tobacco  
companies.

“The era of secret  
science at E.P.A. is  
coming to an end,”  
Mr. Pruitt  
proclaimed at the  
time. The agency’s  
new acting  
administrator,  
Andrew R. Wheeler,  
says he’s moving  
forward with the  
proposal, as the  
agency re-evaluates



a class of widely  
used insecticides,  
called  
organophosphates,  
that have been the  
subject of numerous  
epidemiological  
studies like  
Chamacos.

Nancy B. Beck, a  
chemical industry  
veteran who is the  
E.P.A.'s deputy  
assistant  
administrator, said  
there was no attempt  
to thwart  
epidemiology,  
adding that the  
agency was  
committed to "the  
best available  
science in the most  
transparent  
manner."

But academics and  
state health officials  
say universities are  
being pressured to  
release data that  
would ultimately  
divulge the  
identities of study  
participants, a  
strategy once used  
by tobacco  
companies seeking  
to undermine

research on the dangers of smoking. While participant data is shared with regulators in drug trials, academics fear that the E.P.A.'s proposal would additionally require divulging confidential personal information, potentially violating privacy regulations for federally funded research.



Ana Lilia Sanchez,  
a farm worker and  
the mother of a  
participant in the  
Salinas Valley

study, said her family took precautions to avoid pesticide contamination. Carlos Chavarría for The New York Times

“It is a naked attempt to use a false claim that something nefarious is going on with these studies in an effort to allow industry to challenge conclusions that are not in their favor,” said James Kelly, a manager of environmental surveillance at the Minnesota Department of Health.

## **A Wave of Studies, an Uneasy Industry**

An advertisement in a Nebraska student newspaper was looking for people who wanted to “earn extra money.” Thirty-six college

student volunteers  
and others from the  
community who  
responded were paid  
\$460 to drink  
gelatin capsules  
filled with the  
pesticide  
chlorpyrifos, at up  
to 300 times levels  
the E.P.A.  
considered safe,  
without a full  
discussion of the  
risks.

Sponsored by Dow  
Chemical, this  
study, conducted in  
1998, was one of the  
last of its kind. That  
year, the E.P.A.  
banned the use of  
studies exposing  
people to pesticides,  
and it continues to  
severely restrict  
them.

Epidemiology,  
which has been used  
to examine  
everything from the  
effects of climate  
change to childhood  
obesity, offered a  
way to continue  
studying disease  
trends, amid new  
legal requirements

to examine how  
pesticides  
particularly affect  
infants and children.  
And it could do so  
by tracking people  
during their normal  
lives instead of  
treating them as if  
they were lab rats.  
Chamacos and other  
studies began  
almost immediately,  
although it took  
decades to collect  
sufficient data and  
study how  
participants changed  
over time.

One study by  
Columbia  
University  
researchers linked  
an insecticide to  
developmental  
delays in toddlers.  
Another, by  
scientists at the  
University of  
California, Los  
Angeles, connected  
pesticides to  
Parkinson's disease.  
Academics at the  
University of  
Rochester found  
that pesticides lower  
sperm counts in  
men, while

researchers from the  
Harvard School of  
Public Health found  
lower fertility in  
women.

By 2015, there was  
a growing body of  
research, often  
funded in part by  
the E.P.A. The  
agency decided that  
year to consult  
epidemiology more  
seriously in its  
evaluation of  
glyphosate, the  
world's most  
popular weed killer  
and the active  
ingredient in  
Monsanto's  
Roundup.

“This is a watershed  
event in our  
Program, and one  
which I feel  
particularly proud to  
be a part (go epi!!),”  
Carol Christensen,  
then an E.P.A.  
epidemiologist,  
wrote in a 2015  
email to a colleague  
— using “epi” as  
shorthand for  
epidemiology. “In  
the 35 year history  
of our program, this

will be the FIRST  
time epi studies are  
actively considered  
in the decision  
making.”

Yet even then, there  
was friction over  
what to make of  
studies aiming to  
determine whether  
glyphosate causes  
cancer.

One E.P.A. division,  
the Office of  
Research and  
Development,  
closely examined  
epidemiological  
research and came  
to believe either that  
glyphosate was  
likely to cause  
cancer or that there  
was at least some  
evidence suggesting  
a problem. But  
another division, the  
Office of Pesticide  
Programs, was  
dismissive of  
epidemiological  
studies and  
determined that  
glyphosate was not  
a carcinogen, a view  
that prevailed at the  
E.P.A., according to  
interviews, emails

and an internal memo obtained by The New York Times. Those involved in the agency's debates on epidemiology spoke on the condition of anonymity because the discussions weren't public.

Monsanto said in a statement that "we cannot speak to the internal E.P.A. discussions" but emphasized the agency's ultimate finding that glyphosate was not likely to cause cancer.

The cancer question received renewed attention this month when a California jury awarded \$289 million to a groundskeeper who alleged that the chemical had sickened him. In his closing argument, the plaintiff's attorney, R. Brent Wisner, called epidemiology one of "the three pillars of



cancer science” that  
the case relied on.

At the E.P.A., the  
debate swung in  
favor of  
epidemiology.  
While such studies  
are often complex  
and can be of  
varying quality, the  
agency was  
reluctant in the past  
to give them as  
much weight as lab  
experiments on  
animals. But by the  
Obama  
administration’s  
final months, the  
agency moved for  
the first time to ban  
a pesticide largely  
because of  
epidemiological  
research.

The pesticide,  
chlorpyrifos, was  
the same one  
ingested years  
earlier by unwitting  
Nebraskans. It is  
applied to crops like  
apples, oranges and  
strawberries to  
combat insects like  
spider mites and  
sap-sucking bugs.

In California alone, chlorpyrifos was sprayed on 640,000 acres in 2016, according to state data. And research from Salinas, and the Chamacos study, became a central element in the E.P.A.'s recommendation.

“There is a breadth of information available on the potential adverse neurodevelopmental effects in infants and children as a result of prenatal exposure to chlorpyrifos,” the agency concluded in 2016, also citing epidemiological research from Columbia University and the Icahn School of Medicine at Mount Sinai.

The pesticide industry's reaction was loud and intense.

Monsanto, in emails with the E.P.A., was

dismissive of  
critical  
epidemiological  
research related to  
Roundup, writing  
that “such studies  
are well known to  
be prone to a  
number of biases.”



A Trump  
administration  
proposal would  
prevent the E.P.A.  
from using many  
epidemiological  
studies, like the one  
in Salinas, unless  
more data behind  
them was made  
public. Carlos  
Chavarría for The  
New York Times

Dow Chemical said in reports submitted to the E.P.A. that “the evidence from these studies is insufficient” and called chlorpyrifos a “proven first-line of defense” against new pest outbreaks.

A month after taking over the E.P.A., Mr. Pruitt acted. He disregarded agency scientists and rejected the proposed chlorpyrifos ban, later calling for “a new day, a new future, for a common-sense approach to environmental protection.”

## **View From the Field**

Ana Lilia Sanchez, 50, has worked in the fields in Salinas more than half her life, and one of her daughters has been a Chamacos study participant.

Ms. Sanchez has learned to watch for drifting droplets or the whir of a helicopter spraying overhead.

“Sometimes when we feel it, or we hear it, we start talking about it,” she said recently, sitting with her 5-month-old granddaughter at her home on a Salinas cul-de-sac. “Why wouldn’t they tell us, you know, to get out of here, to not come today?” she asked. “Women, they cover themselves, but men are working in short sleeves, so they are more exposed.”

Insecticides like chlorpyrifos are organophosphates, from the same chemical family as nerve agents like sarin and Novichok, the Russian-developed compound linked to recent attacks in Britain. While the

safety of  
insecticides is  
extensively tested,  
long-term health  
impacts, or even  
how far pesticides  
drift, are the subject  
of continuing  
disagreement.

Ms. Sanchez  
showers after work,  
before touching her  
granddaughter.

“I also put my  
clothes aside,” she  
said. “We separate  
the clothes we use  
when we’re  
working, both my  
husband and I, and  
wash them  
separately so they’re  
not contaminated.”

While some human  
studies examine  
potential harm from  
pesticide residue  
found on fruits and  
vegetables, the  
Chamacos project is  
more personal,  
following hundreds  
of children in the  
heart of where  
American food is  
grown. California  
has the nation’s

largest agricultural  
industry and uses  
more than 200  
million pounds of  
pesticides annually.



Brenda Eskenazi,  
the director of the



Salinas Valley  
project, said that  
“well-controlled  
epidemiologic  
studies” were  
essential for  
understanding “how  
things affect human  
health.” Carlos  
Chavarría for The  
New York Times

For locals,  
pesticides are part of  
life. “It’s a big  
difference from  
when I was  
working,” Mr.  
Camacho said,  
while standing in a  
strawberry field  
framed on three  
sides by distant  
hills. Men and  
women were bent  
over nearby, pulling  
weeds. “My  
supervisor would  
say: ‘That’s not  
dangerous. Just keep  
working.’ There was  
no information.”

Chamacos is built  
on an unsettling  
premise: What  
happens to children  
of pregnant mothers  
certain to have  
pesticides in their

bloodstreams? The E.P.A. and other government agencies have spent millions of dollars funding Chamacos.

Half the Chamacos children have been tracked since before birth. Researchers have collected 350,000 samples of blood, urine, breast milk and even household dust and spent nearly two decades studying maturing children. They perform neurodevelopmental and physical assessments and study factors like diet and school performance. After nearly two decades, the study's data appears in more than 160 academic papers.

During a visit to the Chamacos office in Salinas, Brenda Eskenazi, the director of the project and a professor of epidemiology at

Berkeley, was testing out brain monitoring equipment, wearing what looked like a black swim cap strewn with knobs and wiring. She has long been fascinated with cognitive development, going back to when she saw a Woodstock reveler — one having a bad acid trip — dive into pavement.

“Why did he do that?” Ms. Eskenazi remembers wondering at the time. “What was he thinking? What’s going on in that brain?”

“Any science is imperfect,” she said, but stressed that “well-controlled epidemiologic studies” were essential for understanding “how things affect human health.” She added, “Otherwise you’re just making huge assumptions that a

rodent is the same  
as a human.”

## **A Bitter Debate**

The day after Mr.  
Pruitt made his  
March 2017  
decision to reject a  
ban on chlorpyrifos,  
he hosted top  
executives from one  
of the nation’s  
largest farming and  
pesticide trade  
organizations for a  
closed-door  
conversation.

Near the top of the  
meeting agenda was  
“Epidemiology  
Study Policy” in the  
aftermath of the  
“chlorpyrifos  
matter,” according  
to internal records.



McKinnon  
Elementary School  
in Salinas. The  
pesticide industry  
contends that  
epidemiological  
studies are prone to  
biases and not as  
reliable as testing on  
lab animals. Carlos  
Chavarría for The  
New York Times

“There are no  
guideposts, if you  
will, for what is a  
legitimate, useful  
epidemiology study  
and what is not,”  
Jay Vroom,  
CropLife America’s  
president, said in an  
interview,

explaining what he had told agency officials at this and other meetings.

In a subsequent letter to the E.P.A., a CropLife America lobbyist said the agency was relying on a “shortsighted approach,” and the group submitted formal proposals to curb the embrace of epidemiology the E.P.A. undertook under the Obama administration.

Mr. Pruitt responded with his proposal, made this past spring, to ban epidemiological and other studies that did not make study details public, including at least some information on study participants.

Academics have resisted previous requests to review their data, notably at Columbia University. In a 2016 letter to the

agency, a university official wrote that it could not provide “extensive individual level data to E.P.A. in a way that ensures the confidentiality” of “our research subjects.”

David Michaels, an epidemiologist at George Washington University’s School of Public Health and head of the Occupational Safety and Health Administration during the Obama administration, said Mr. Pruitt’s plan was not about transparency but about discrediting studies that made pesticides look bad.

“The underlying justification for this ‘transparency’ proposal is a caricature of how science really works,” Mr. Michaels said at a recent hearing. “The cynical approach proposed by E.P.A.

can be best  
described as  
‘weaponized  
transparency.’”

It is no coincidence,  
he said, that the  
term “secret  
science” was also  
used in the 1970s  
when the tobacco  
industry was trying  
to forestall critical  
research about  
smoking.

Researchers have  
had wins. This  
month, a federal  
appeals court  
ordered the E.P.A.  
to ban chlorpyrifos,  
citing findings from  
human studies. The  
Trump  
administration is  
mulling whether to  
appeal.

But epidemiologists  
are unsettled. In  
mid-July, after  
nearly two decades  
of work on  
Chamacos, the  
E.P.A. emailed Ms.  
Eskenazi requesting  
“the original data”  
from her research,  
citing “uncertainty



around  
neurodevelopmental  
effects associated”  
with pesticides she  
has studied. The  
agency made a  
similar request to  
Columbia.

Ms. Eskenazi,  
worried about her  
study participants’  
privacy, alerted  
university lawyers.  
She is now  
concerned that the  
E.P.A. may try to  
undermine her  
study’s repeated  
findings that some  
pesticides may be  
harming children.

“I knew this was  
going to come  
sooner or later,” she  
said. “And here it  
is.”

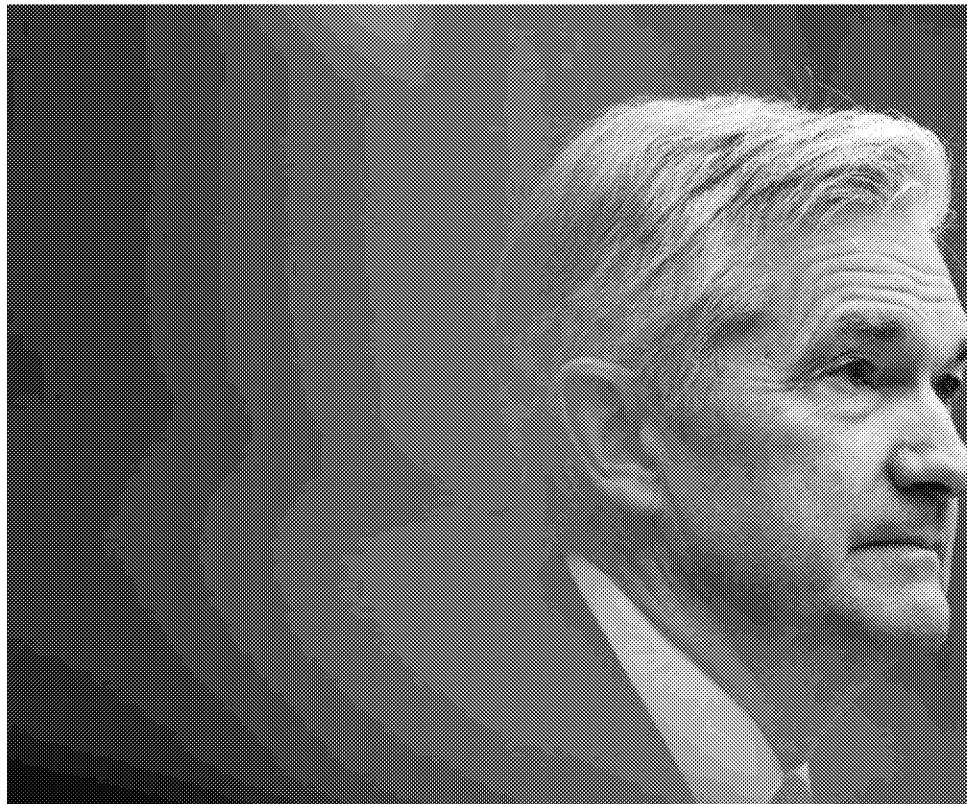
Danny Hakim  
reported from  
Salinas, and Eric  
Lipton from  
Washington.

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